

NOTE

0400  
4-24-01, 0280

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/814,604

DATE: 04/05/2001  
TIME: 08:13:03

Input Set : A:\Ar4528.txt  
Output Set: N:\CRF3\04052001\I814604.raw

P.5  
M 2.

ENTERED

4 <110> APPLICANT: Klein, Elliott S.  
5 Chandraratna Roshantha A.  
7 <120> TITLE OF INVENTION: Methods of Detecting Dissociated Nuclear  
8 Hormone Receptor Ligands  
11 <130> FILE REFERENCE: P-AR 4528  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/814,604  
C--> 13 <141> CURRENT FILING DATE: 2001-03-22  
13 <160> NUMBER OF SEQ ID NOS: 52  
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
17 <210> SEQ ID NO: 1  
18 <211> LENGTH: 462  
19 <212> TYPE: PRT  
20 <213> ORGANISM: Homo sapiens  
22 <400> SEQUENCE: 1  
23 Met Ala Ser Asn Ser Ser Ser Cys Pro Thr Pro Gly Gly Gly His Leu  
24 1 5 10 15  
25 Asn Gly Tyr Pro Val Pro Pro Tyr Ala Phe Phe Phe Pro Pro Met Leu  
26 20 25 30  
27 Gly Gly Leu Ser Pro Pro Gly Ala Leu Thr Thr Leu Gln His Gln Leu  
28 35 40 45  
29 Pro Val Ser Gly Tyr Ser Thr Pro Ser Pro Ala Thr Ile Glu Thr Gln  
30 50 55 60  
31 Ser Ser Ser Ser Glu Glu Ile Val Pro Ser Pro Ser Pro Pro Pro  
32 65 70 75 80  
33 Leu Pro Arg Ile Tyr Lys Pro Cys Phe Val Cys Gln Asp Lys Ser Ser  
34 85 90 95  
35 Gly Tyr His Tyr Gly Val Ser Ala Cys Glu Gly Cys Lys Gly Phe Phe  
36 100 105 110  
37 Arg Arg Ser Ile Gln Lys Asn Met Val Tyr Thr Cys His Arg Asp Lys  
38 115 120 125  
39 Asn Cys Ile Ile Asn Lys Val Thr Arg Asn Arg Cys Gln Tyr Cys Arg  
40 130 135 140  
41 Leu Gln Lys Cys Phe Glu Val Gly Met Ser Lys Glu Ser Val Arg Asn  
42 145 150 155 160  
43 Asp Arg Asn Lys Lys Lys Lys Glu Val Pro Lys Pro Glu Cys Ser Glu  
44 165 170 175  
45 Ser Tyr Thr Leu Thr Pro Glu Val Gly Glu Leu Ile Glu Lys Val Arg  
46 180 185 190  
47 Lys Ala His Gln Glu Thr Phe Pro Ala Leu Cys Gln Leu Gly Lys Tyr  
48 195 200 205  
49 Thr Thr Asn Asn Ser Ser Glu Gln Arg Val Ser Leu Asp Ile Asp Leu  
50 210 215 220  
51 Trp Asp Lys Phe Ser Glu Leu Ser Thr Lys Cys Ile Ile Lys Thr Val  
52 225 230 235 240  
53 Asp Phe Ala Lys Gln Leu Pro Gly Phe Thr Thr Leu Thr Ile Ala Asp  
54 245 250 255  
55 Gln Ile Thr Leu Leu Lys Ala Ala Cys Leu Asp Ile Leu Ile Leu Arg

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```

56          260          265          270
57 Ile Cys Thr Arg Tyr Thr Pro Glu Gln Asp Thr Met Thr Phe Ser Asp
58          275          280          285
59 Gly Leu Thr Leu Asn Arg Thr Gln Met His Asn Ala Gly Phe Gly Pro
60          290          295          300
61 Leu Thr Asp Leu Val Phe Ala Phe Ala Asn Gln Leu Leu Pro Leu Glu
62 305          310          315          320
63 Met Asp Asp Ala Glu Thr Gly Leu Leu Ser Ala Ile Cys Leu Ile Cys
64          325          330          335
65 Gly Asp Arg Gln Asp Leu Glu Gln Pro Asp Arg Val Asp Met Leu Gln
66          340          345          350
67 Glu Pro Leu Leu Glu Ala Leu Lys Val Tyr Val Arg Lys Arg Arg Pro
68          355          360          365
69 Ser Arg Pro His Met Phe Pro Lys Met Leu Met Lys Ile Thr Asp Leu
70          370          375          380
71 Arg Ser Ile Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met
72 385          390          395          400
73 Glu Ile Pro Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn
74          405          410          415
75 Ser Glu Gly Leu Asp Thr Leu Ser Gly Gln Pro Gly Gly Gly Gly Arg
76          420          425          430
77 Asp Gly Gly Gly Leu Ala Pro Pro Pro Gly Ser Cys Ser Pro Ser Leu
78          435          440          445
79 Ser Pro Ser Ser Asn Arg Ser Ser Pro Ala Thr His Ser Pro
80          450          455          460
83 <210> SEQ ID NO: 2
84 <211> LENGTH: 448
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 2
89 Met Phe Asp Cys Met Asp Val Leu Ser Val Ser Pro Gly Gln Ile Leu
90 1          5          10          15
91 Asp Phe Tyr Thr Ala Ser Pro Ser Ser Cys Met Leu Gln Glu Lys Ala
92          20          25          30
93 Leu Lys Ala Cys Phe Ser Gly Leu Thr Gln Thr Glu Trp Gln His Arg
94          35          40          45
95 His Thr Ala Gln Ser Ile Glu Thr Gln Ser Thr Ser Ser Glu Glu Leu
96          50          55          60
97 Val Pro Ser Pro Pro Ser Pro Leu Pro Pro Pro Arg Val Tyr Lys Pro
98 65          70          75          80
99 Cys Phe Val Cys Gln Asp Lys Ser Ser Gly Tyr His Tyr Gly Val Ser
100          85          90          95
101 Ala Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Ile Gln Lys Asn
102          100          105          110
103 Met Ile Tyr Thr Cys His Arg Asp Lys Asn Cys Val Ile Asn Lys Val
104          115          120          125
105 Thr Arg Asn Arg Cys Gln Tyr Cys Arg Leu Gln Lys Cys Phe Glu Val
106          130          135          140
107 Gly Met Ser Lys Glu Ser Val Arg Asn Asp Arg Asn Lys Lys Lys Lys

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```

108 145          150          155          160
109 Glu Thr Ser Lys Gln Glu Cys Thr Glu Ser Tyr Glu Met Thr Ala Glu
110          165          170          175
111 Leu Asp Asp Leu Thr Glu Lys Ile Arg Lys Ala His Gln Glu Thr Phe
112          180          185          190
113 Pro Ser Leu Cys Gln Leu Ala Lys Tyr Thr Thr Asn Ser Ser Ala Asp
114          195          200          205
115 His Arg Val Arg Leu Asp Leu Gly Leu Trp Asp Lys Phe Ser Glu Leu
116          210          215          220
117 Ala Thr Lys Cys Ile Ile Lys Ile Val Glu Phe Ala Lys Arg Leu Pro
118 225          230          235          240
119 Gly Phe Thr Gly Leu Thr Ile Ala Asp Gln Ile Thr Leu Leu Lys Ala
120          245          250          255
121 Ala Cys Leu Asp Ile Leu Ile Leu Arg Ile Cys Thr Arg Tyr Thr Pro
122          260          265          270
123 Glu Gln Asp Thr Met Thr Phe Ser Asp Gly Leu Thr Leu Asn Arg Thr
124          275          280          285
125 Gln Met His Asn Ala Gly Phe Gly Pro Leu Thr Asp Leu Val Phe Thr
126          290          295          300
127 Phe Ala Asn Gln Leu Leu Pro Leu Glu Met Asp Asp Thr Glu Thr Gly
128 305          310          315          320
129 Leu Leu Ser Ala Ile Cys Leu Ile Cys Gly Asp Arg Gln Asp Leu Glu
130          325          330          335
131 Glu Pro Thr Lys Val Asp Lys Leu Gln Glu Pro Leu Leu Glu Ala Leu
132          340          345          350
133 Lys Ile Tyr Ile Arg Lys Arg Arg Pro Ser Lys Pro His Met Phe Pro
134          355          360          365
135 Lys Ile Leu Met Lys Ile Thr Asp Leu Arg Ser Ile Ser Ala Lys Gly
136          370          375          380
137 Ala Glu Arg Val Ile Thr Leu Lys Met Glu Ile Pro Gly Ser Met Pro
138 385          390          395          400
139 Pro Leu Ile Gln Glu Met Met Glu Asn Ser Glu Gly His Glu Pro Leu
140          405          410          415
141 Thr Pro Ser Ser Ser Gly Asn Thr Ala Glu His Ser Pro Ser Ile Ser
142          420          425          430
143 Pro Ser Ser Val Glu Asn Ser Gly Val Ser Gln Ser Pro Leu Val Gln
144          435          440          445
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 454
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 3
153 Met Ala Thr Asn Lys Glu Arg Leu Phe Ala Ala Gly Ala Leu Gly Pro
154 1          5          10          15
155 Gly Ser Gly Tyr Pro Gly Ala Gly Phe Pro Phe Ala Phe Pro Gly Ala
156          20          25          30
157 Leu Arg Gly Ser Pro Pro Phe Glu Met Leu Ser Pro Ser Phe Arg Gly
158          35          40          45
159 Leu Gly Gln Pro Asp Leu Pro Lys Glu Met Ala Ser Leu Ser Val Glu

```

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Input Set : A:\Ar4528.txt

Output Set: N:\CRF3\04052001\I814604.raw

160	50					55				60						
161	Thr	Gln	Ser	Thr	Ser	Ser	Glu	Glu	Met	Val	Pro	Ser	Ser	Pro	Ser	Pro
162	65					70					75					80
163	Pro	Pro	Pro	Pro	Arg	Val	Tyr	Lys	Pro	Cys	Phe	Val	Cys	Asn	Asp	Lys
164					85					90					95	
165	Ser	Ser	Gly	Tyr	His	Tyr	Gly	Val	Ser	Ser	Cys	Glu	Gly	Cys	Lys	Gly
166				100					105					110		
167	Phe	Phe	Arg	Arg	Ser	Ile	Gln	Lys	Asn	Met	Val	Tyr	Thr	Cys	His	Arg
168			115						120				125			
169	Asp	Lys	Asn	Cys	Ile	Ile	Asn	Lys	Val	Thr	Arg	Asn	Arg	Cys	Gln	Tyr
170		130							135				140			
171	Cys	Arg	Leu	Gln	Lys	Cys	Phe	Glu	Val	Gly	Met	Ser	Lys	Glu	Ala	Val
172	145					150					155					160
173	Arg	Asn	Asp	Arg	Asn	Lys	Lys	Lys	Lys	Glu	Val	Lys	Glu	Glu	Gly	Ser
174					165					170					175	
175	Pro	Asp	Ser	Tyr	Glu	Leu	Ser	Pro	Gln	Leu	Glu	Glu	Leu	Ile	Thr	Lys
176				180					185					190		
177	Val	Ser	Lys	Ala	His	Gln	Glu	Thr	Phe	Pro	Ser	Leu	Cys	Gln	Leu	Gly
178			195						200				205			
179	Lys	Tyr	Thr	Thr	Asn	Ser	Ser	Ala	Asp	His	Arg	Val	Gln	Leu	Asp	Leu
180		210					215					220				
181	Gly	Leu	Trp	Asp	Lys	Phe	Ser	Glu	Leu	Ala	Thr	Lys	Cys	Ile	Ile	Lys
182	225					230					235					240
183	Ile	Val	Glu	Phe	Ala	Lys	Arg	Leu	Pro	Gly	Phe	Thr	Gly	Leu	Ser	Ile
184					245					250					255	
185	Ala	Asp	Gln	Ile	Thr	Leu	Leu	Lys	Ala	Ala	Cys	Leu	Asp	Ile	Leu	Met
186				260					265					270		
187	Leu	Arg	Ile	Cys	Thr	Arg	Tyr	Thr	Pro	Glu	Gln	Asp	Thr	Met	Thr	Phe
188			275					280				285				
189	Ser	Asp	Gly	Leu	Thr	Leu	Asn	Arg	Thr	Gln	Met	His	Asn	Ala	Gly	Phe
190		290					295				300					
191	Gly	Pro	Leu	Thr	Asp	Leu	Val	Phe	Ala	Phe	Ala	Gly	Gln	Leu	Leu	Pro
192	305					310					315					320
193	Leu	Glu	Met	Asp	Asp	Thr	Glu	Thr	Gly	Leu	Leu	Ser	Ala	Ile	Cys	Leu
194					325					330					335	
195	Ile	Cys	Gly	Asp	Arg	Met	Asp	Leu	Glu	Glu	Pro	Glu	Lys	Val	Asp	Lys
196				340					345					350		
197	Leu	Gln	Glu	Pro	Leu	Leu	Glu	Ala	Leu	Arg	Leu	Tyr	Ala	Arg	Arg	Arg
198			355					360					365			
199	Arg	Pro	Ser	Gln	Pro	Tyr	Met	Phe	Pro	Arg	Met	Leu	Met	Lys	Ile	Thr
200		370					375					380				
201	Asp	Leu	Arg	Gly	Ile	Ser	Thr	Lys	Gly	Ala	Glu	Arg	Ala	Ile	Thr	Leu
202	385					390					395					400
203	Lys	Met	Glu	Ile	Pro	Gly	Pro	Met	Pro	Pro	Leu	Ile	Arg	Glu	Met	Leu
204					405					410					415	
205	Glu	Asn	Pro	Glu	Met	Phe	Glu	Asp	Asp	Ser	Ser	Gln	Pro	Gly	Pro	His
206				420					425					430		
207	Pro	Asn	Ala	Ser	Ser	Glu	Asp	Glu	Val	Pro	Gly	Gly	Gln	Gly	Lys	Gly
208			435					440					445			

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PATENT APPLICATION: US/09/814,604

DATE: 04/05/2001  
TIME: 08:13:03

Input Set : A:\Ar4528.txt  
Output Set: N:\CRF3\04052001\I814604.raw

209 Gly Leu Lys Ser Pro Ala  
210 450  
213 <210> SEQ ID NO: 4  
214 <211> LENGTH: 9  
215 <212> TYPE: PRT  
216 <213> ORGANISM: Artificial Sequence  
218 <220> FEATURE:  
219 <223> OTHER INFORMATION: synthetic peptide  
221 <221> NAME/KEY: VARIANT  
222 <222> LOCATION: (1)...(9)  
223 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
225 <221> NAME/KEY: VARIANT  
226 <222> LOCATION: (1)...(9)  
227 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
229 <400> SEQUENCE: 4  
230 Leu Xaa Xaa Ile Ile Xaa Xaa Xaa Leu  
231 1 5  
234 <210> SEQ ID NO: 5  
235 <211> LENGTH: 8  
236 <212> TYPE: PRT  
237 <213> ORGANISM: Artificial Sequence  
239 <220> FEATURE:  
240 <223> OTHER INFORMATION: synthetic peptide  
242 <400> SEQUENCE: 5  
243 Asp Tyr Lys Asp Asp Asp Asp Lys  
244 1 5  
247 <210> SEQ ID NO: 6  
248 <211> LENGTH: 9  
249 <212> TYPE: PRT  
250 <213> ORGANISM: Artificial Sequence  
252 <220> FEATURE:  
253 <223> OTHER INFORMATION: synthetic peptide  
255 <400> SEQUENCE: 6  
256 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala  
257 1 5  
260 <210> SEQ ID NO: 7  
261 <211> LENGTH: 10  
262 <212> TYPE: PRT  
263 <213> ORGANISM: Artificial Sequence  
265 <220> FEATURE:  
266 <223> OTHER INFORMATION: synthetic peptide  
268 <400> SEQUENCE: 7  
269 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu  
270 1 5 10  
273 <210> SEQ ID NO: 8  
274 <211> LENGTH: 6  
275 <212> TYPE: PRT  
276 <213> ORGANISM: Artificial Sequence  
278 <220> FEATURE:

**Please Note:**

Use f n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing t ensure that a corresp nding explanation is presented in the <220> t <223> fields f each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/814,604

DATE: 04/05/2001  
TIME: 08:13:04

Input Set : A:\Ar4528.txt  
Output Set: N:\CRF3\04052001\I814604.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18